# **El-Moasser Final Examinations**

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(A) Choose	Corre			
innut ene	correct answer : ergy when using the	e hair dryer is the	energy.	
1. The III	h potential	c. kinetic	d. thermal	
FOWS II	arough turbines in	uams to generate	elicidy.	
e Fossil fuels ne	eed to be	formed under the	Earth's surface.	
a five years		b. ten years		
drads of	fyears	d. millions of	years	
4. The steps of fo	orming fossil fuel,		of the remains of the liv	ing
a. decaying	b. cooling	c. burying	d. heating	
(R) Give a reason	for the following	g :		
Iron inside rocks	may rust.			
11000				
***************************************		***************************************	***************************************	
(A) Complete the	following senter	nces :		
			s to make flour hundreds of	
		sed to dring drain:	s to make moul munureus of	
			s to make flour hundreds of	
years ago, but i	now we use them	to generate		
years ago, but in 2. In any energy community 3. Wood and	now we use them hain, some of the are examples	to generatee e energy is lost in		
years ago, but in any energy of the second s	now we use them thain, some of the are examples still fuel.	to generatee e energy is lost in s of biofuel, while	the form of are	
years ago, but it 2. In any energy of 3. Wood and examples of fos 4. When you ride a	now we use them thain, some of the main, some of the main, are examples still fuel.	to generate e energy is lost in s of biofuel, while energy store	the form of are and in your body is converted	
years ago, but in 2. In any energy of 3. Wood and	now we use them thain, some of the main, some of the main, are examples sail fuel.  The bicycle, the main are ergy which cause	to generate e energy is lost in s of biofuel, while energy store	the form of are and in your body is converted	
years ago, but in the second s	hain, some of the main, some of the main, some of the main, are examples sil fuel.  a bicycle, theergy which cause if?	e energy is lost in sof biofuel, while the energy store the bicycle to me	the form of are  and are  ed in your body is converted ove.	
years ago, but in the second s	hain, some of the main, some of the main, some of the main, are examples sil fuel.  a bicycle, theergy which cause if?	e energy is lost in sof biofuel, while the energy store the bicycle to me	the form of are and in your body is converted	
years ago, but in the second s	hain, some of the main, some of the main, some of the main, are examples sil fuel.  a bicycle, theergy which cause if?	e energy is lost in sof biofuel, while the energy store the bicycle to me	the form of are  and are  ed in your body is converted ove.	
years ago, but in the second s	hain, some of the main, some of the main, some of the main, are examples sil fuel.  a bicycle, theergy which cause if?	e energy is lost in sof biofuel, while the energy store the bicycle to me	the form of are  and are  ed in your body is converted ove.	
years ago, but in the second s	hain, some of the hain, some of the hain, some of the hain, are examples sil fuel.  a bicycle, theergy which cause if?  sediments of a manner.	e energy is lost in sof biofuel, while the energy store the bicycle to me	the form of are  and are  ed in your body is converted ove.	
years ago, but it 2. In any energy of 3. Wood and examples of fos 4. When you ride a into ene (B) What happens A river erodes the s	chain, some of the chain, some of the chain, some of the chain, are examples still fuel.  The bicycle, the chain ergy which cause if?  The sediments of a manner of a manner of a manner of a manner of the chain ergo.	e energy is lost in a control of biofuel, while the bicycle to more the bicycle to more allowed and the bicycle to the bicycle to more allowed and the bicycle to the bicycle	the form of are  and are  ed in your body is converted  ove.  ong period of time.	
years ago, but it 2. In any energy of 3. Wood and examples of fos 4. When you ride a into	chain, some of the chain, some of the chain, some of the chain, are examples still fuel.  The bicycle, the ergy which cause if?  The sediments of a manner of a river travels	e energy is lost in a control of biofuel, while the bicycle to more the bicycle to more allowed and the bicycle to the bicycle to more allowed and the bicycle to the bicycle	the form of are  and are  ed in your body is converted  ove.  ong period of time.	1
years ago, but it 2. In any energy of 3. Wood and	chain, some of the chain, some of the chain, some of the chain, are examples sail fuel.  The bicycle, the	e energy is lost in a control of biofuel, while the bicycle to more the bicycle to more allowed and the bicycle to the bicycle to more allowed and the bicycle to the bicycle	the form of are  and are  ed in your body is converted ove.  ong period of time.	1

(B) Look at the following figures, then put  $(\sqrt{})$  or (x):





car (2)

1.	The movement of the two cars ca	n be	controlled	from a	distance by	using
	a remote control.					

2. Car (2) use sunlight to move.

3. The two cars can convert the chemical energy stored in their batteries into electrical energy.

4. We can use an electric cable to recharge the battery that is placed in car (1) again if it runs out.

Model Exam 3

### 1 (A) Choose the correct answer:

 All the following are processes that can change the Earth's surface, except ....

a. digestion.

b. erosion.

c. weathering.

d. deposition.

2. Electric wires are made of .....

a. copper.

b. carbon.

c. wood.

d. glass.

3. All the following are forms of fuel, except .....

a. wood.

b. natural gas. c. gasoline.

d. glass.

4. The Sun provides us with ..... and ..... and

a. sound - heat.

b. light - electricity.

c. sound - light.

d. heat - light.

### (B) Give a reason for the following:

The used amount of fossil fuel cannot be replaced as quickly as it is consumed.

# 2 (A) Correct the underlined words:

 Curiosity is a robotic vehicle that is designed to explore the surface of moon. .......

2. Hydroelectric energy, is one of non-renewable energy resources.	(
or the state of th	************

small solar panels are used to sup	oply one light bulb with sound energy.
cars depend on fuel as a sour	ce of electrical energy.
(B) What happens if ?  You turn on an electric fan.	(according to the change of energy
(A) Choose from column (B) what su	nits it in column (A):

(A)	(B)
Water     Wind energy.	a. It needs extreme heat and pressure to be formed from remains of dead plants.
2. Wind energy. 3. Coal.	b. It is the main resource of energy of the Earth's surface
4. The Sun	c. It is gaseous renewable resource of energy.
4, 11	d. It is a liquid renewable resource of energy.
	e. It is a solid renewable resource of energy.

3. ..... 4. .....

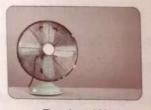
# (B) Look at the following figures, then complete the following sentences:



Device (1)



Device (2)



Device (3)



Device (4)

- 1. The electrical energy used to operate devices number .....
- 2. Kinetic energy is produced in devices ...... and ...........

# Model Exam 4

### 1 (A) Choose the correct answer:

- 1. All the following are renewable energy resources, except .....
  - a. waterfalls.
- b. coal.
- c. the Sun.
- d. wind.
- 2. Hydroelectric energy is generated from .....
  - a. waterfalls only.

b. waterfalls and dams.

c. biofuel only.

- d. biofuel and fossil fuel.
- Both hair dryer and electrical water kettle produce ...... energy.
  - a. chemical b. thermal
- c. light
- d. potential

2.

Part -		harned
	onergy to be	recharged
4 Some electric des	vices need energy to be	d. sound
a. electrical	b. thermal	
a. electrical		
(B) Give a reason fo	the lonoving formation of deltas.	
Plants of wetland are	r the following : eas help in formation of deltas.	The state of the s
		ng:
	Fic term of each of the following	our. (
2 (A) Write the scientif	term of the langes into water vapo	our.
4 A process in Willell	1 it is US	60
2 The liquid that store	es chemical energy, and anim	nals and plants
Z. The liquid block	and from remains of dead arm	(
3. A fuel that is produ	ced from remains of dead animurface.	(
under the Earth's s	roduces light from electricity.	
4. It is a device that pi	roduces light from	
18	7	upping out.
(B) What happens II	controlled toy car batteries is r	dilling 5 and
The charge of remote	controlled (c)	***************************************
Sand dunes are the and sandy desert.	ort distance when wind blows	with a great force. (
	Used energy	Produced energy
1.	energy	Light energy and energy

..... energy

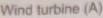
..... energy

(A) Choose the correct answer :			
(A) Choose the Correct disversion (A) Choose the Choose the Correct disversion (A) Choose the Correct disversion (A) Choose the Choose the Choose the Choose the Choose the Choo	e energy c	hanges into sound energy.	
b. thermal	c. kinetic	d. electrical	
2. Using convergent shee the solar energy.	ts in cooking food i	s one of the benefits of using	)
paper b. plastic	c. mirror	d. wooden	
a. Paper 3. River water evaporates by the I	nelp of heat produc	ed from	
a. kettles.	b. the Sun.		
c, electric heaters.	d. electric iron		
Extreme heat and pressure und forming	der the Earth's surf	ace has an important role in	
a. wood. b. wind.	c. fossil fuel.	d. biofuel.	
(B) What happens to ?			
The car fuel indicator if the amount	nt of gasoline in a	car decreases	
***************************************	***************************************		
(A) Put (V) or (X):			
1. Deposition process never char	nge the shape of the	ne land. (	)
2. There is a stored chemical end	ergy inside the foo	d we eat. (	)
3. Machines make our life more	easier.	(	)
4. We have to conserve all forms	of fuel.	(	)
(B) Give a reason for the following	ing:		
Sunlight is very important for pla	nts and animals.		
***************************************			
(A) Complete the following con	4		-
(A) Complete the following sen			
1. When we expose our bodies			
2. The energy can be from			
<ol><li>Sediments are mixed with the layers at the bottom of ocean</li></ol>		and forming	
4. Blowing of strong in t	the desert may for	m large sand dunes.	

(B) If the two wind turbines in front of you are affected by the different wind forces Answer the following questions:

Weak wind







Wind turbine (B)

- 1. Which wind turbine spins faster ? (Give a reason for your answer).
- 2. Which wind turbine generates less electrical energy?

# Model Exam 6

### 1 (A) Choose the correct answer:

- 1. When a river meets a sea or an ocean, a landform known as ...... is formed
  - a. canyon
- b. volcano c. mountain
- d. delta
- 2. Oil is a non-renewable energy resource that is used inside a .....

- a. flash light. b. car engine. c. electric fan. d. washing machine.
- 3. It takes several ..... for a spacecraft to travel from Earth to Mars.
  - a. seconds
- b. minutes
- c. days d. months
- 4. You feel warm when you rub your hands together, because ..... energy changes into thermal energy.
  - a. kinetic
- b. light
- c. electrical d. sound

### (B) What happens if ...?

Sea creatures were buried under the Earth's surface over millions of years.

### 2 (A) Correct the underlined words:

1. Watermill turbines generate electricity by using the energy of wind movement.

woon is the	main	source	of	energy	on	Earth.	
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3. We need sound energy that comes from the Sun, for cooking foods and warming houses.

- 4. Fossil fuel include oil, coal and wood.
- (B) Give a reason for the following:

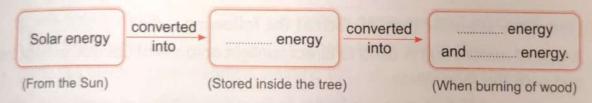
Biofuel is considered as a renewable fuel.

# 3 (A) Put (V) or (X):

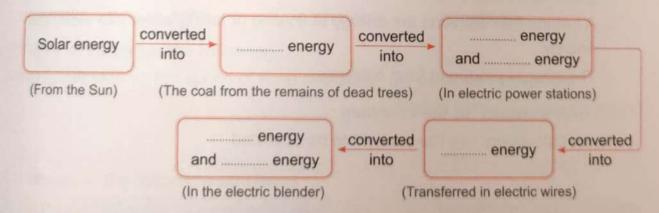
- 1. Both canyons and valleys often have river in their bottom.
  - 2. The walls of valleys are vertical and steep.
  - 3. Deltas are formed as a result of silt deposition.
  - 4. The Nile River pour its water in the Red Sea.
  - (B) Use the following words to complete the energy chains below. (you may use the same word more than once):

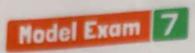
(Thermal - Chemical - Kinetic - Electrical - Sound - Light)

1. The energy chain of burning some branches of a tree :



The energy chain of electric blender.





(A) Choose the correct answer:	and the second by
1. 40 million years ago, Wadi Al-I	Hitan was covered by
2. Sound and energies a	re from output energies when operating the
mobile phone.	c. chemical d. light
a. electrical b. potential	C CHEITHOUT
3. We can use the energy obtaine	od from burning of wood directly in all of the
following situations, except	b. operating television.
a. warming houses.	d. boiling water.
c. cooking food.	d. boiling water
4. When land and water areas on I	Earth absorb the solar energy, the
increases.	b. speed of rotation of Earth
a. temperature on Earth	d. speed of rotation of Sun
c. speed of rotation of moon	d. speed of foldation of Carr
The kinetic energy of wind applied to	to the wind turbines decreases.
The kinetic energy of wine app	
and cook the food inside.  2. It is a form of biofuel, that can be a grass and wood chips.  3. A turbine that converts the energy energy.  4. The energy produced from batteries (B) Give a reason for the following:	made from some types of plants such as  of flowing or falling water into electrical  (
Some calculators use the sunlight to	be operated.
stations. Put each of the following	electricity is generated in electric power g words in front of its suitable sentence:
1. Its movement produces kinetic ener	3).
<ol><li>It changes kinetic energy into electri</li></ol>	cal energy. (

3. It is a type of nonrenewable resources of energy. 4. It is resulted from heating the water and it turns turbines. (B) Look at the opposite picture, then complete the following sentences.  1. The name of this glass building is 2. The idea of working of this building depends on collecting the energy coming from the Sun. 3. The received energy is converted into energy that warms the inside of this building. 4. In the cold regions, this building allows farmers to plant crops that only grow in climates.	
Model Exam 8	
A) Choose the correct answer:  Some kinetic energy is converted into energy due to friction of bike's tire with the road.  a. light b. electrical c. potential d. thermal	
Using water to generate electricity depends on places	
c. with weak winds.  d. where boats sail in rivers.	
Inside the electric power station, heating of produce steam.	
a. turbines. b. generators. c. water. d. fuel.	
While playing guitar, the energy changes into sound energy.	
a. kinetic. b. light. c. chemical. d. potential.	
Give a reason for the following:  then you press on the spring of soap dispenser, the soap moves upward.  (according to the change of energy)	)
complete the following sentences :	
There are two types of weathering which are weathering andweathering.	
Dams control the flow of, that causes the increase of the	

3.	In some villages,	solar panels	are use	d to	generate	 energy that	is user
	to operate	equipment.				 11.00	-00

- 4. Sand dunes are in continuous motion due to the movement of
- (B) What happens if ...?

You turn on the T.V.

(according to the change of energy)

# (A) Give one example for each of the following:

- 1. A renewable resource of energy:
- 2. A non-renewable resource of energy: .....
- 3. A method of conserving fossil fuel: .....
- 4. A disadvantage of using fossil fuel in energy production : .....

# (B) Look at the following figures, then complete the following energy chain:



Figure (1)



Figure (2)



Figure (3)



Figure (4)



Figure (5)

Energy in figure

converted into

Chemical energy stored in figure

converted into

Thermal energy and kinetic energy in figure .....

Thermal energy that is produced from the device in figure ..... converted

Electrical energy that is travelled through figure .....

converted

(A) Choose the correct answer				
The City of	drums is the	energy.		
chemical b. light	C. sound	d. potential		
if the rain falls over a canyon for s	several times per y	ear,		
a its depth increases.	b. its depth decr	eases.		
it becomes flat.	d. it is not be affe			
3. When the windmill blades rotates generating energy.	, this causes wind	turbines to rotate a	ind	
a. electrical b. solar	c. chemical	d. potential		
4. All the following are forms of foss	il fuel, except	*****		
a. water. b. coal.	c. natural gas.			
(B) What happens if?				
A generator in an electric power sta	tion is damaged.			
	***************************************			
		*************************************	************	
		The state of the s		
(A) Put (V) or (X):				
1. Energy may be destroyed inside	different devices.		(	)
2. Grinding of biscuits by hands into	o fine powder has	the same effect of		
mechanical weathering of rocks.			(	)
3. The movement of a generator in	electric power state	tions produces pot	ential	
energy.			(	)
4. The amount of oil on Earth is lim	ited.		(	)
(B) Write the scientific term of each	h of the following	r:		
1. Process in which rocks are broke	en down into small	ler particles. (		)
2. Process in which small broken re				
of wind or water.				
(A) Complete the following senter	nces :			
1. The origin of sand is the breaking	g down of some ty	pes of		
2. The type of weathering in which			e presen	се
of plant roots is known as				
				55

3. The change of electrical energy into sound energy in the radio is an example that proves the law of  4. The natural resources that can be replaced shortly after being used are called resources of energy.  (B) Mention the input and output energies of the opposite device:  1. Input energy:  2. Output energy:  2. Output energy:  3. Running bicycle.  4. Running bicycle.  5. Running person.  2. Curiosity rover is designed to explore			Man and the
4. The natural resources that can be replaced shortly after being used are called resources of energy.  (B) Mention the input and output energies of the opposite device:  1. Input energy:  2. Output energy:  1. Which of the following is a renewable energy resources?  2. Running bicycle.  3. Running bicycle.  4. Running water.  5. Running water.  6. Running person.  7. Curiosity rover is designed to explore	3. The change of electrical energy	into sound energy if	the radio is an example
(B) Mention the input and output energies of the opposite device :  1. Input energy :  2. Output energy :  1. Which of the following is a renewable energy resources ?  2. Running bicycle.  3. Running water.  4. Running person.  2. Curiosity rover is designed to explore  4. Earth planet.  5. Mars planet.  6. the Sun.  7. The change of energy in an is opposite to the change of energy in a wind turbine.  7. a. electric bell b. electric heater c. electric iron d. electric fan  7. All the following factors play an important role in the formation of fossil fuel, except d.  7. Earth planet.  8. Earth planet.  9. Earth planet.  9. Earth planet.  1. The change of energy in an is opposite to the change of energy in a wind turbine.  1. Earth planet.  1. Earth planet.  1. Earth planet.  1. Earth planet.  2. Earth planet.  3. The change of energy in an is opposite to the change of energy in a wind turbine.  1. Earth planet.  2. Earth planet.  3. The change of energy in an is opposite to the change of energy in a wind turbine.  4. All the following factors play an important role in the formation of fossil fuel, except.  6. Extreme heat.  7. Coal is considered as a nonrenewable energy resource.  1. The matter that produces steam on heating, which is used to turn turbines in electric power station.  2. A mill that is turned by water flow.  3. Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity.	4 The patural resources that can be	replaced shortly a	fter being used a-
(B) Mention the input and output energies of the opposite device:  1. Input energy:  2. Output energy:  1. Which of the following is a renewable energy resources?  2. Running bicycle.  3. Running bicycle.  4. Running person.  2. Curiosity rover is designed to explore	resources of energy.	e replace	are called
1. Input energy: 2. Output energy: 2. Output energy: 3. Which of the following is a renewable energy resources? 4. Which of the following is a renewable energy resources? 5. Running bicycle. 6. Running bicycle. 7. Running water. 8. Running person. 9. Curiosity rover is designed to explore		energies of the opp	osite device :
Nodel Exam  (A) Choose the correct answer:  1. Which of the following is a renewable energy resources?  a. Running bicycle. b. Running car. c. Running water. d. Running person.  2. Curiosity rover is designed to explore a. Earth planet. b. Mars planet. c. the Sun. d. the moon.  3. The change of energy in an			
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a. Running bicycle. c. Running water. d. Running person.  2. Curiosity rover is designed to explore	(A) Choose the correct answer:		2
c. Running water.  d. Running person.  2. Curiosity rover is designed to explore	1. Which of the following is a renew	able energy resource	ces ?
2. Curiosity rover is designed to explore	a. Running bicycle.		
a. Earth planet. b. Mars planet. c. the Sun. d. the moon.  3. The change of energy in an	c. Running water.	d. Running perso	n.
3. The change of energy in an	2. Curiosity rover is designed to exp		
a wind turbine. a. electric bell b. electric heater c. electric iron d. electric fan  4. All the following factors play an important role in the formation of fossil fuel, except	a. Earth planet. b. Mars planet.	c. the Sun.	d. the moon.
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4. All the following factors play an important role in the formation of fossil fuel, except  a. extreme pressure. b. extreme heat. c. the moon light. d. rocks and sediment.  (B) Give a reason for the following:  Coal is considered as a nonrenewable energy resource.  (A) Write the scientific term of each of the following:  1. The matter that produces steam on heating, which is used to turn turbines in electric power station.  2. A mill that is turned by water flow.  3. Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity.  (	a wind turbine.		
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turbines in electric power station.  2. A mill that is turned by water flow.  3. Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity.  (			used to turn
2. A mill that is turned by water flow.  3. Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity.  (		r neating, writer is	
Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity.  (			(
wind, water, ice and gravity.			(
4. The energy used to play a drum.		dropped in a new	location by the action of
	4. The energy used to play a drum.		()

- what	t happens if?		
(B) *****	your hands near the lighted lam	ip.	
You put		******************************	
	a parameter and a parameter an		
	CONTROL OF THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO T	2. On the second	

# (A) Correct the underlined words :

- 1. The amount of biofuel that is consumed, cannot be replaced as quickly as it is used.
- 2. Dams are built on rivers in order to generate solar energy.
- 3. The origin of sand is the breaking down of some types of glass. (\_\_\_\_\_\_)
- 4. Plant roots help in the formation of rocks.

# (B) Look at these electric devices, then complete the following sentences:







Device (2)



Device (3)

- Sound and light energies are produced in the device number ...... and help it to do its function.
- 3. Noise from devices number ...... and ...... is wasted energy, because sound doesn't help the devices do their functions.
- 4. All of these devices are operated by ...... energy that is transmitted from ...... stations through wires.

# **Model Examinations**

# El-Moasser Final Examination Models

# Model Exam 1

- (A) 1. d 2. c 3. d 4. a
  - (B) Minerals of rocks dissolve causing their breaking down.
- (A) 1. (★) 3. (★) 2. (★) 4. (✓)
  - (B) 1. deposition 2. valleys
- (A) 1. Electric bulb.
  - Renewable resources of energy.
  - 3. Wind.
  - Electrical energy.
  - (B) To conserve the electricity.

### Model Exam

- 0
- 1 (A) 1. a 2. a 3. d 4. b
  - (B) Due to the reaction between iron and oxygen of air.
- (A) 1. windmills watermills electricity.
  - 2. heat.
  - 3. charcoal oil coal
  - 4. chemical kinetic
  - (B) A canyon is formed.
- (A) 1. increases 2. gentle
  - (B) 1. (✓) 2. (×) 3. (✓) 4. (×)

# Model Exam 3

- (A) 1, a 2, a 3, d 4, d (B) Because fossil fuel is formed over millions of years.
- 2. renewable
  3. electrical 4. batteries
  - (B) Electrical energy changes into kinetic energy.
- (A) 1. d 2. c 3. a 4. b (B) 1. (2) – (3) – (4) 2. (3) – (4)

- (A) 1. b 2. b 3. b 4. a
  (B) Because they help in increasing the rate of deposition process.
- (A) 1. Evaporation.
  - 2. Gasoline.
  - 3. Fossil fuel.
  - 4. Electric bulb.
  - (B) We can recharge its batteries by connecting toy car to a nearby charger or replacing old batteries with new ones.
- 3 (A) 1. (✓) 2. (✓) 3. (✗) 4. (✗)
  - (B) 1. Solar thermal2. Kinetic Electrical

- (A) 1. c 2. c 3. b 4. c
  - (B) We have to stop at the nearest gas station to fill the tank of the car.
- (A) 1. (★) 2. (✓) 3. (✓) 4. (✓)
  - (B) Because without sunlight plants will die, and then the animals that eat them will die also.
- (A) 1. warm. 2. changed 3. plants – animals 4. wind
  - (B) 1. (B), because it is affected by strong wind.2. (A)

# Model Exam

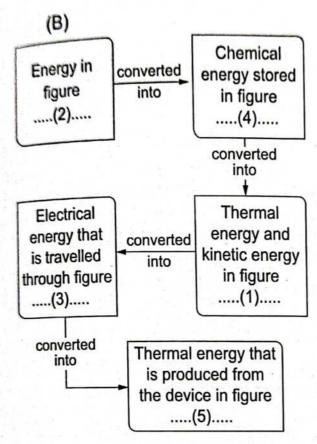
- (A) 1. d 2. b 3. d 4. a (B) Oil and natural gas are formed.
- (A) 1. water flow. 2. Sun 3. solar 4. natural gas.
  - (B) Because it can be replaced shortly after it is used.
- 3 (A) 1. (✓) 2. (×) 3. (✓) 4. (×)
  - (B) 1. Chemical Thermal light
     2. Chemical Thermal –
     Kinetic Electric Kinetic
     Sound

# Model Exam

- (B) The amount of produced electricity will decrease.
- (A) 1. Concave mirrors.
  - 2. Liquid fuel.
    - 3. Water turbine.
  - 4. Electrical energy.
  - (B) Because sunlight is converted into electrical energy which calculators use it to be operated.
- 3. Coal 2. Generator 4. Steam
  - (B) 1. greenhouse. 2. radiant 3. thermal 4. warm

- (A) 1. d 2. b 3. c 4. a
  - (B) Because the potential energy stored in the spring changes into kinetic energy that moves the soap upward.
- (A) 1. mechanical chemical
  - 2. water potential
  - electrical irrigation
  - 4. wind.
  - (B) The electrical energy is converted into sound energy and light energy.

- (A) 1. The Sun.
- 2. Coal.
- Walking or biking instead of driving a car.
- 4. Air pollution.



- 1 (A) 1. c
- 2. a
- 3. a
- 4. a
- (B) It will not produce electrical energy.
- 2 (A) 1. (×)
- 2. (1)
- 3. (\*)
- 4. (1)
- (B) 1. Weathering
- 2. Erosion
- (A) 1. rocks.
- 2. mechanical
- 3. conservation of energy.
- 4. renewable

- (B) 1. Electrical energy.
  - 2. Thermal energy.

- (A) 1. c
- 2. b
- 3. d
- 4. c
- (B) Because it is used at a rate faster than it can be renewed.
- (A) 1. Water.
- 2. Watermill
- 3. Deposition.
- 4. Kinetic energy.
- (B) You feel warm, because some electrical energy is converted into thermal energy.
- (A) 1. fossil fuel
- 2. electrical
- 3. rocks
- 4. decomposition
- (B) 1. (2)
- 2.(1)-(3)
- 3.(1)-(3)
- 4. electrical electric power



# Question (1)

Choo	se the corr	ect answer:				
1	is consid	dered as the main	resource of energ	gy on the	e Eratl	h's
surf	ace.					
a. C	Gasoline	b. The sun	c. Natural gas	d. The r	noon.	
2	energy	is produced in a li	ght bulb but it doe	sn't help	it to	do
its f	unction.					
a. F	otential	b. Chemical	c. Thermal	d. Light		
3 In v	vater turbine	es, the	energy of water	is chan	ged ir	nto
elec	ctrical energy	J.				
a. k	rinetic	b. light	c. thermal	d. poter	ntial	
4 All d	of the following	ng are reasons of	chemical weatheri	ng exce	pt	•
a. li	chens	b. plant's roots	c. acid rain	d. oxyg	en ga	S
Write	the scient	ific term:				
TI						
U Ine	wasted ene	rgy of a computer	:	(		)
			: oduced from dead	marine	anim	als.
		ssil fuel that is pro	oduced from dead	marine		als.
			oduced from dead	marine	anim	als.
2 It is		ssil fuel that is pro	oduced from dead	marine	anim	als.
2 It is	a type of fo  or (X):	ssil fuel that is pro	n (2)	marine	anim	als.
2 It is Put (	a type of fo  or (X): t-moving rive	Questioners can cause a lo	n (2)	marine (	anima	als. )
2 It is Put (	a type of fo  or (X): t-moving rive	Questioners can cause a lo	n (2) t of erosion.	marine (	anima	als. )
2 It is Put ( 1 Fas 2 Wir	a type of fo  /) or (*): t-moving rive ndmills can de	Question  ers can cause a loop their job all the tire	n (2) t of erosion.	marine (	anima	als. ) ng.
2 It is Put ( 1 Fas 2 Wir 3 Lich	a type of fo  or (X): t-moving rive admills can de	Question  Question  ers can cause a loo their job all the tire  some rocks and present the control of the contr	n (2) t of erosion. The as the wind nev	marine (	anima	als. ) ng.
2 It is  Put ( 1 Fas 2 Wir  3 Lich 4 San	a type of fo  or (X): t-moving rive admills can de	Question  Question  ers can cause a loo their job all the tire  some rocks and provalleys can be fore	t of erosion. The as the wind never acid as they	marine (	anima	als. ) ng. )

# Question (3)

4						
A	Choose from column	(A)	what suits	it in	column	(B):

#### Column (A)

- 1 Law of conservation of energy
- 2 Greenhouse
- 3 Coal

#### Column (B)

- a. It helps to grow crops that only grow in warm climates.
- b. Non-renewable energy source.
- Energy is not destroyed, but is transformed from one form to another.





Give reason: Erosion and deposition are linked processes.

# Model Exam 2

# Question (1)

A Choos	e '	the	correct	answer:

- 1 \_\_\_\_\_ may cause chemical weathering or mechanical weathering.
  - a. Lichens
- b. Oxygen
- . Water
- d. Rocks
- 2 As energy transforms from one form to another, some of it is often lost as \_\_\_\_\_\_energy.
  - a. light
- b. heat
- c. sound
- d. sound
- 3 Hydroelectric energy is generated from \_\_\_\_\_\_.
  - a. biofuel

- b. fossil fuel
- c. waterfalls and dams
- d. a and b
- 4 An example of a renewable source of energy is \_\_\_\_\_\_.
  - a. oil
- b. wind
- c. coal
- d. natural gas

### Cross out the odd word:

speed of river - age of river - name of river - size of river.



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Questi	on (2)	
A Put (√) or (X):		
<ol> <li>Electricity generated by wind tur</li> </ol>	bines is transmitted through wind.	
		)
2 The sun is the primary source of	f forming both biofuel and fossil fuel	
	( )	)
3 Deposition process takes place I	pefore erosion process. ( )	)
Canyons walls are not very tall of		)
5 The input energy for the electric	fan is wind. ( )	)
B Give reasons for: Earth's surface	e is always changing.	
Questi	on (3)	***
Complete the following:		
1 To operate an electric mixer, we	useenergy.	
<ol><li>Renewable energy resources inc</li></ol>	clude and	
3 Coal andcan be used	in electric power stations to generate	2
electricity.		
Study the opposite figure, the	n select	
the number on the map where	e you think	
a delta will form:		
Model Ex	am 3	
Questi	on (I)	
Choose the correct answer:		
1 From the resources we are con:	suming at a faster rate than they are	3
being created is		
a. wind b. water	c. solar energy d. fossil fuel	
One of the disadvantages of wir	nd energy is that it	
a. is very expensive	b. causes pollution	
c. does not blow sometimes	d. needs electricitu	

•	of plar	nt play an impo	ortant role in the weat	hering pro	cess.
	a. Leaves	b. Stems	c. Roots	d. Flowers	S
4	If you see an are may b		rain and Water flow,	in the futur	re
	a. sand dunes	b. delta	c. canyons	d. mounto	ain
B	Give reasons for:				
	The Delta in Egypt	t allows cultivat	ting different types of	crops.	
**		Quest	ion (2)		
A	Put (✓) or (✗):				
•	Mars is located	a few meters a	way from Earth.		( )
6	Living organisms	s may cause m	echanical and chemi	cal weathe	ering.
					( )
•	Wind turbines w	ere used in the	past to grind grains.		( )
4	Understanding t	he formation o	f landforms helps pre	edict future	
	changes.				( )
	Write the scient				
•	5 I 25 T 1 W		ls the flow of water a	nd increas	es the
	potential energy			(	)
6	Special types of	valleys with ste	eep sides.	(	9700
•	A hill of sand cre	eated by the wi	nd.	(	)
		Quest	ion (3)		
A	Complete the fo	llowing sente	ences:		
•	In many energy	chains, some c	of the energy is lost in	the form o	f
•	is an ex	cample of biofu	el, whileis an	example o	f fossil
	fuel.				
В	What happens w	<b>hen:</b> Your han	d gets close to a lighti	ng electric	lamp.



# Question (1)

Choose the co	rrect answer:			
1) prod	uce acids as they gr	ow on rocks.		
a. Insects	b. Plant's roots	c. Beetles	d. Lichens	
2)used	to convert solar ene	ergy into electrical e	nergy.	
a. Wind turbing	nes 🖒 Water turbine	s c. Solar panels	d. Windmills	3
3 Electric wires	are made of	•		
a. wood	b. copper	c. iron	d. plastic	
4) is co	nsidered a renewabl	e source of energy		
a. Coal	<ul><li>b. Natural gas</li></ul>	c. Water	d. Fossil fue	;l
Cross out the	odd word:			
Sea cows - Sha	ark teeth – Deers – Ti	urtles – Crocodilians	i. (	)
	Questio	n (2)		
Write the scie	The state of the s			
🚺 Energy can ne	either be created nor	destroyed, but only	converted f	from
one form to o	inother.		(	)
2) It is a form of	of fossil fuel, which of	can be made from	some type	es of
plants such a	s grass and wood ch	nips.	(	)
3 A panel designation	gned to absorb the	sun energy to gen		
_				
4 The process (	of moving rocks fron	n one place to anot	ner. (	)
Give reason:	Geologists examine t	he layers of sedime	ntary rocks	
			***************************************	
	Questio	n (3)		
Put (/) or (X)	:			
<ol> <li>There is store</li> </ol>	ed chemical energy in	nside the food we e	at. (	)
2 Erosion like w	eathering can't be s	een.	(	)
	1)prod a. Insects 2)used a. Wind turbin 3) Electric wires a. wood 4)is con a. Coal Cross out the Sea cows - Sho Write the scie 1) Energy can no one form to a 2) It is a form of plants such a 3) A panel desig 4) The process of Give reason: (**)	used to convert solar energy in the solar energy in the process of moving rocks from Questio  a, lnsects  used to convert solar energy in the energy	produce acids as they grow on rocks.  a. Insects b. Plant's roots c. Beetles  used to convert solar energy into electrical e a. Wind turbines b. Water turbines c. Solar panels  Electric wires are made of a. wood b. copper c. iron  is considered a renewable source of energy a. Coal b. Natural gas c. Water  Cross out the odd word:  Sea cows - Shark teeth - Deers - Turtles - Crocodilians  Question  Question  I Energy can neither be created nor destroyed, but only one form to another.  It is a form of fossil fuel, which can be made from plants such as grass and wood chips.  A panel designed to absorb the sun energy to general to gener	produce acids as they grow on rocks.  a Insects b Plant's roots c Beetles d Lichens  used to convert solar energy into electrical energy. a Wind turbines b Water turbines c Solar panels d Windmills  Electric wires are made of a wood b copper c iron d plastic  is considered a renewable source of energy a Coal b Natural gas c Water d Fossil fue  Cross out the odd word: Sea cows - Shark teeth - Deers - Turtles - Crocodilians.  Question (2)  Write the scientific term: Energy can neither be created nor destroyed, but only converted to one form to another.  It is a form of fossil fuel, which can be made from some type plants such as grass and wood chips.  A panel designed to absorb the sun energy to generate electric conditions.  Give reason: Geologists examine the layers of sedimentary rocks  Question (3)  Put (/) or (X): There is stored chemical energy inside the food we eat.

3 A canyon is a type of valley.	(	)
4 Electricity generated from water is called hydroelectricity.	(	)
B Mention three factors affecting the shape of a valley.		
		***********
Model Exam 5		
Question (1)		
Choose the correct answer:		
1 The energy produced by waterfalls and dams is called	ener	gy.
a. mechanical b. hydroelectric c. chemical d. kine	tic	
The force of pulls rainwater downhill and creates small	stream	ms.
a. wind b. air c. gravity d. sand	ł	
3 All the following are found deeply under the Erath's surfac	e, exc	ept
***************************************		
a. natural gas b. coal c. green plants d. oil		
The energy produced from the radio, which expresses its ma	ain	
function, isenergy.		
a. electric b. sound c. light d. cher	nical	
Classify these situations by writing Letter (M) for med	hanio	al
weathering and (C) for chemical weathering:		
Water freezes inside the cracks of rocks.		
Water runs through limestone caves.		
Question (2)		
A Put (/) or (X):		
1 Most of energy chains start with the moon.	(	)
2 Solar panels consist of a lot of plant cells.	(	)
3 Charcoal is formed from decomposition of dead ancient plan	ts (	)
	(	)
4 The bigger the stream, the more erosion it causes.	(	)

-		A PROPERTY.	S 15 35	Theres
-inc	I R	evi	SIC	n
1 11 1 W				

B Give reaso	on: The batteries	used to oper	ate toys can't	be used in
	operating the	Curiosity Ro	ver.	
*	Qu	estion (3		***************************************
Complete	the following:			7
1 The ener	gy produced fron	n a battery a	nd used to op	erate a toy car is
***************************************	energy.			761
2 The elect	ric generator cha	nges	energy into	energy
Acidic rai	in has the same e	ffect of acid	s produce from	n
B How will t	his landform cl	hange over	the	
next 100 y	ears?	_		
310000000000000000000000000000000000000		***************************************		
	Mode	l Exam	6/	
	Qu	estion (1		
	e correct answ			
	of energy resulte		air dryer that o	doesn't help it to
ao its fun a. solar	oction is6.heat		a.uad	Tale and a sel
	of rocks in differ		ound	d.electrical
a.melting			rosion	d.deposition
	t energy for the M			The second secon
a. electric			inetic	d.solar
B Arrange t	he following ste	eps:		
	) Ice melts and w	-	ly formed cro	icks.
b.(	.) Water freezes, e	expands and	widens crack	S.
	.) The cycle of me		W-0-15	es.
d.(	) Water seeps int	o rock crack	:S	



****	Question (2)	
🔼 Put (⁄) or (٪):		
Mixing of water w	vith oxygen gas produces acid rain. (	)
2 Both electric bulb	and electric heater produce thermal energy. (	)
When burning of	fossil fuel increases, the temperature on Earth	
decreases.	(	)
Write the scienti	fic term:	
1 It is a phenomeno	on in which the Earth's temperature increases.	
		)
2 The kind of weath	nering that changes the structure and color of ro	cks.
	(**************************************	)
	Question (3)	
Choose from solu	The second secon	
	mn (A) what suits it in column (B):	
Column (A)	Column (B)	
1 Generator	a. Is the energy produced from the device.	
2 Input energy	b.Is made from wood.	
3 Charcoal	c.Converts kinetic energy into electric energy.	
a 14	d. Is the energy consumed in the device.	
1	2	
B Cross out the odd	l word:	
Canyons – Mudslide		)
		,



# Question (1)

Choose the cor	rect answer:			
1 Both hair dryers	s and electric wate	er kettles produce .	energ	gy.
a. thermal	b. light	c. electrical	d. chemical	
2 erode	rocks and soil fror	m their banks.		
a. Rivers	b. Sea waves	c. Rainwater	d. Gravity	
3 When	energy of wind er	nergy increases, th	e windmill blo	ıdes
spin faster.				
a. chemical	b. kinetic	c. potential	d. electrical	
4consis	ts of very fine bits	of sand, clay or ro	ck materials.	
a. Peddles	b. Mud	c. Slit	d. Dune	
electricity:	Questio	on (2)		***************************************
Nut (√) or (x):				
<ol><li>When pedaling</li></ol>	g a bike, the chemi	ical energy in your	body change	es to
kinetic energy.			(	)
Biofuel is one of	of the non-renewa	ble resources of er	nergy. (	)
3 We use solar e	nergy to preserve	food.	(	
4 Rocks become	es harder after rus	ting.	(	)
Carlo I	uring running, there	e is a change of er	nergy inside y	our

Model	Exams	•-
1 - Hortestern	LAUITIO	

Question (3)			
A Mention the process from these words:	40.		
(Weathering - Erosion - Deposition)			
1 Pulling of sand from beach.	( <u></u>		)
2 Red-colored rock.	(		)
3 Formation of delta.	(	.,	)
B Mention two ways that may help in conserving	water	?	
Model Exam 8	:	***************************************	
Question (1)	1		
A Choose the correct answer:	*		
1 The power source for the electric fan is	(wind- e	lectric	city)
2) The car needs to move.	(fue	I - wa	iter)
3 The distance moved by the sand grains depends of	n the		of
wind.	force -	direct	ion)
4 When a piece of coal is burnt, energy is pro	oduced. etential -	thern	nal)
<b>Give reason:</b> Chemical weathering causes greater ch	anges t	han	-
physical weathering.	***************************************	***************************************	
Question (2)			
A Put (✓) or (✗):			
1 Most caves are formed by mechanical weathering.	7	(	)
2 Energy cannot be transformed from one form to an		(	)
3 As the speed of a car increases, the amount of used	fuel dec	crease	es.
		(	)
4 Rivers store kinetic energy.		(	)

# Final Revision **B** Write the scientific term: 1 The process of breaking a boulder into small rocks. They are lowland areas between mountains. Question (3) A Choose from column (A) what suits it in column (B): Column (B) Column (A) a. Solar energy. 1 Coal b. Non-renewable source. 2 Water 3 Wind turbine output c. Electrical energy. d. Renewable source. energy B The opposite figure shows Wadi El-Hitan, choose: 1 The oldest rocks are found in number. (1-2) This place where a (river- sea) was in the past.



Model Exam 9
Question (1)
A Complete with the right answer from between the brackets:
1 Modern wind turbines are the old vacuum mills.
(longer than - shorter than)
2) Ancient people use as a form of fuel before discovering
gasoline. (wind - wood)
3 may have strips and v-shaped landform. (Deltas - Canyons)
4 When you turn on a light bulb, the electrical energy travels through
until reaching the bulb. (plastic – wires)

Model	Exams	0-
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What happens if: It rains a lot and water runs through	gong ag	jai
Question (2)		
Put (√) or (X):		
1 The energy chain of a burning candle is: chemical e	nergy convei	te
into thermal energy & light energy	(	
2 Acid rain causes soil and water pollution.	( ·	
3 The main difference between valleys and Canyons is	s the shape o	f
side.	(	
The flow of water can be controlled to generate elec	tricity in dam	S.
	(	
Mandley for survey to severe to the little		
Mention two ways to conserve electricity:  Question (3)		
Question (3) Write the scientific term:		******
Question (3)	(	
Question (3) Write the scientific term:  The energy produced from playing the guitar.	eriod of time	to
Question (3) Write the scientific term:  The energy produced from playing the guitar.	eriod of time	
Question (3)  Write the scientific term:  The energy produced from playing the guitar.  Natural resources of energy that takes a very long per be formed.	(	
Question (3)  Write the scientific term:  The energy produced from playing the guitar.  Natural resources of energy that takes a very long per	(	
Question (3)  Write the scientific term:  The energy produced from playing the guitar.  Natural resources of energy that takes a very long perbe formed.  The device in electric power station that turns kinetic electrical energy.	energy into	
Question (3)  Write the scientific term:  The energy produced from playing the guitar.  Natural resources of energy that takes a very long per be formed.  The device in electric power station that turns kinetic	energy into	
Question (3)  Write the scientific term:  The energy produced from playing the guitar.  Natural resources of energy that takes a very long perbe formed.  The device in electric power station that turns kinetic electrical energy.	energy into  (	



# Question (1)

	100 C 100 C 100 C		
Complete with the right answer	from between the	brackets	<b>::</b>
1 When you use a handbell, the	energy change	es into sou	nd
energy.	(electr	ical – kinet	ic)
2 The most powerful force which cha	nges the desert is		
movement.	(1)	water – wir	ıd)
3 Using in cooking food is	one of the benefits o	of using so	lar
energy.	(concave mirrors -	electric ove	en)
① Deposition plays an important role	in the formation of		
	(ca	nyon – del	ta)
<b>B</b> Give reason: There was a sea Cove	ring northern Egypt o	about 40	
million years ago.			
Question	(2)		
Put (✓) or (✗):		1 X 6	
1 Turbines convert kinetic energy into	o electrical energy.	(	)
2 Canyons and Valleys have steep h	igh walls.	(	)
3 The Color of Canyons differs acco	rding to the type of r	ocks	
forming it.		(	)
4 Rivers erode rocks and can form v	alleys and canyons.	(	)
B Cross out the odd word:		ni zauli	
Canyons – Landslide – Valley - Delt		(	)

## Question (3)

A Choose from column (A) what suits it in column (B):

#### Column (A)

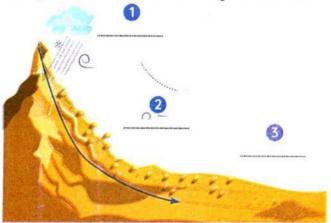
- 1 The sun
- 2 Coal
- 3 Pressure and temperature

#### Column (B)

- a. From non-renewable energy sources.
- b. From Factors affecting the formation of fossil fuels.
- c. The main energy source on the Earth's surface.
- d. Converting wind energy into electrical energy.
- 1 ......

- 2
- <u>\_\_\_\_\_</u>

Complete the spaces with suitable processes:



# Model Exam 11

# Question (1)

A	Complete	with t	ne right answer	from between	the	brackets
---	----------	--------	-----------------	--------------	-----	----------

1 In a battery of a toy car \_\_\_\_\_ energy changes into electrical energy. (chemical – sound)

- 3 \_\_\_\_\_ moving rivers can cause a lot of erosion. (Slow Fast)
- 4 To avoid air pollution, we must use \_\_\_\_\_ resources such as water.

(renewable - non-renewable)

### B Cross out the odd word:

flash floods - valleys - hurricanes - landslides

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			-
A	Put (	) or	Ø):
	(	,	•

- When pedaling a bike, the chemical energy in your body changes to kinetic energy.
- 2 The produced sound energy doesn't help the blender do its job.
- The electricity produced by water is known as electromagnetic energy.
- A Study the below figures then complete the following:

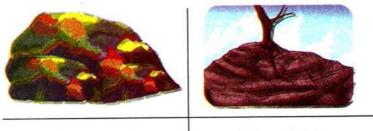


Figure (1)

Figure (2)

- 1 Figure (\_\_\_\_\_) represents mechanical weathering.
- Figure (\_\_\_\_\_) represents chemical weathering.

# Question (3)

A Choose from column (A) what suits it in column (B):

### Column (A)

- 1 A famous canyon in North America
- 2 Gently sloped sides
- 3 Special types of valley with steep sides.
- 4 usually has a triangled-shape
- 5 Very fine bits of sand, clay or rock materials

#### Column (B)

- a. Valley.
- b. Grand canyon.
- c. Canyon.
- d. Slits.
- e. Delta.
- B Give reason: The noise from a hair dryer seems like "lost energy".



# Question (1)

Choose the correc	t answer:		
1 A plugged-in lamp	çan turn	energy to	energy.
a electrical - light	Ç.	b. kinetic - light	
c. chemical - light	2	d. chemical - hea	t
2 Acid rain is formed	when	gas combines with	rain water.
a. oxygen	carbon dioxide	e <b>c.</b> hydrogen	d. helium
3 Large Sand dunes	are formed by		
a water wave	. wind	c. heat	d. rains
4is a landfo	orm with high, sto	eep and narrow w	alls.
a. Delta	Dune	c. Valley	d. Canyon
Give reason: It's har	d to see the act	ion of weathering.	
	Question	(2)	
Write the scientific	c term:		
1 The energy resource	ces that includes	s wind energy and	water energy.
			()
2 The gas that causes	the red-colored	rust on some rock	. ()
3 A device in the election	tric power static	on that changes th	e kinetic energy
into electrical enerç	gy.		()
Give an example for	or:		
1 An earth feature fo	rmed by deposi	tion of sediments.	()
2 An earth feature for	rmed by erosior	n by water of rivers	S. ()

Final Revision	evision
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## Question (3)

# Choose from column (A) what suits it in column (B):

#### Column (A)

- 1 Solar panels
- 2 Concave mirrors
- 3 Old windmills

#### Column (B)

- a. is used in cooking food.
- b. It was used to grind grain.
- c. used to generate electricity from solar energy.
- d. Convert kinetic energy into electrical energy.
- 1 ......
- 2 .....
- **What happens when:** The remains of marine were buried under the Erath's surface over millions of years.

# Model Exam 13

### Question (1)

## Put ( ) or ( ):

- Mars Curiosity can be operated from a distance.
- 2 Earth surface is stable as time passes.
  ( )
- Thermal energy produced in hair dryer doesn't help the device to perform its function.
  ( )
- 4 Sometimes you can see erosion happening. ( )

### Study the following figure then complete:







Figure (2)

- 1 Figure (.....) is formed by a river meeting a sea.
- Pigure (\_\_\_\_\_) is formed by wind or waves of water.
- 3 \_\_\_\_\_Process effect on the formation of both of them.



# Question (2)

A Complete with the right answer from between the brackets:
1changes the structure of lakes and causes death of fish.
(Acid rain – Global warming)
2 runs out faster than we consume it. (Fossil fuel – Biofuel)
3is made of very fine bits of sand, clay and rock materials.
(Boulder - Silts)
4 Scientists call each layer of sedimentary rocks a
(fossil – formation)
B Cross out the odd word:
weathering – photosynthesis – deposition – erosion. ()
Question (3)
A Complete the following:
1 Types of energy produced from washing machines are energy
andenergy.
2 Canyons are a special type of with Walls.
3 In electric heater,energy is considered as an input energy.
4 We can use some forms of fuel such as and in
warming houses.
B From the opposite figure:
1 What is the name of this device?
2 The change of energy is from
energy toenergy.



# Question (1)

Complete with the right answer from between the bi	rackets	5:
1 An example of renewable sources is (cc	al – wir	nd)
Q Curiosity Rover is designed to explore		
(Mars planet – T	he Moc	on)
3 weathering causes a completely new different ma	tter.	
(Mechanical -	Chemic	al)
4 Coal is a type of fuel, which is used in all the following purpos	ses exce	ept
(warming houses - ope	rating T	V)
Arrange the following steps:		
a. () The small streams are joined together to form bigge	er strear	ms
b. () Gravity pulls rainwater downhill		
c. () Big streams or rivers carve out valleys as the wa	ter rush	nes
across the land		
Question (2)		
Put (√) or (×):		
1 Valleys are wider than canyons.	(	)
2 Coal is the oldest fuel that has been used all over the world to	oy ancie	ent.
	(	)
Oelta is a common landform in sandy desert and beach.	(	)
B Mention two ways to conserve fossil fuel:		
		***********
Question (3)		
Complete the following:		
1 To keep playing with a toy car, we have to the bat	teries.	
2 weathering changes matter greater than we	athering	g.
3 When wind turbines rotate, energy is converted int	O	
energy.		

Model	Exams	0-

)

CORP.				
В	Complete	the	following	diagram:-
NAME OF	p			a

used to operate	Electric bulb	produces	
			-

# Model Exam 15

# Question (1)

Α	Put	<b>(</b>	or	( <u>X</u> ):	
---	-----	----------	----	---------------	--

- 1 The produced sound energy helps the hair dryer to do its function.
- 2 Air in the desert can be a powerful force to change landforms. ( )
- 3 After 10 years, the sandcastle that Adam built will look the same. ( )
- Classify the following resources in this table

(Coal - natural gas - oil - Wind - Solar energy - Wood)

Renewable	Nonrenewable	
(capeling and an analysis of the second seco		
	and the second s	

# Question (2)

A	Write	the	scientific	term:
---	-------	-----	------------	-------

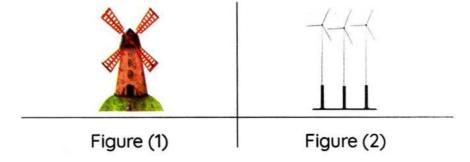
- 1 The energy that is produced from the blender and helps it in doing its job.
- 1 It is any substance which produces thermal energy when burning.
- 3 A type of a electrical energy generated by water turbines in dams.
- 4 A part of a plant that breaks down rock as they grow. (......)

(.....)



# Question (3)

- A Complete the following:
  - 1 Cars smog causes irritation of ...... and ..... of humans.
  - 2) \_\_\_\_\_ formed by deposition of sediments of river in the sea.
  - Is a fast change to the earth surface while \_\_\_\_\_ happens in millions of years.
- B Study the below figures, then complete the following:



- 1 Which one of them generates electric energy?
- What is the input energy for these figures?

# **Model Exams Answers**

# Model Exam

#### Question (1)

- **(1)** b
- **4** b **3** a
- 📵 🚺 (Thermal energy)
  - 2 (Oil or natural gas)

### **Ouestion**

- **A**×

(Mudslide)

### Question (3)

- **(A) (1)** c
- **2** a
- **3** b
- Because if rocks become eroded then they must be deposited and if you see a deposit of sand, this means it has already been eroded.

# Model Exam 2

### Ouestion 🚹

- **(1)** C
- **2** b
- **3** c
- 4 b

name of river

### Question (2)

- A 1 × 2 /

- Bx Ax Bx
- Because Wind, water, and weather can change Earth's surface by moving materials to different places.

### Question (3)

- 🔼 🛈 electrical
  - 2 waterfall wind 3 natural gas
- (Number 2)

# Model Exam 3

#### Question (1)

- $\mathbf{A} \mathbf{1} \mathbf{d}$
- B Due to the presence of fertile soil.

### Question 🙆

- **(1) (1) (2)** 
  - 21
- **B** x

- (Dam)
  - 2 (canyon) (Sand dunes)

#### Question (6)

- 🔼 🚺 thermal energy
  - 2 Charcoal coal
- B You will feel heat as electric lamp converts electrical energy into light and heat energies.

# Model Exam 4

#### Question (1)

- **(1)** d
- 2 c
- **3** b
- **4**) c

Deers

#### Question @

- (Law of conservation of energy)
  - 2 (Liquid fuel)
  - 3 (Solar panels)
  - 4 (Erosion)
- **B** To understand what the area looked like during the ancient time

#### Question (3)

- $\mathbf{A} \mathbf{O} \mathbf{A}$
- 2 x

- 📵 1 size of river
- 2 speed of river
- 3 Age of river

### Model Answers

# Model Exam 5

### Ouestion 6

- (A) (1) b
- **3** c
- **(A)** (1) a **2** a

Question (1)

**3** b

**B 1** (M) **2** (C)

- carbon dioxide gas that cause: (a) Air pollution
  - (b)Acid rain
  - (c) Global warming

### Question @

- (A) (D) X

**4** b

Because robots on mars are too far from local stores or sockets (plugs) on Earth

### Question (3)

- (A) (1) electrical
  - 2 kinetic electrical
  - 3 Lichens
- B The river could be wider and the curves could be bigger. The river may dry up and leave a small gully

# Model Exam 6

#### Question 1

- **(A) (1)** c
- 2 b
- **3** d
- **B** (a) (3).
- (b) (2).
- (c)(4)
- (d)(1)

#### Question @

- (A) (D) X

- (Global warming) (Chemical weathering)

#### Question (6)

- **A 1** c
- 2 d
- **3** b
- Mudslide

# Question 🙆

- $\mathbf{A} \mathbf{O} \checkmark$
- $\mathbf{Q} \times$
- **3** x
- Because the chemical energy stored in food is converted into kinetic energy that helps your body move

Model Exam 7

B When fossil fuels burn, they produces

### Question (6)

- (Erosion).
- 2 (Weathering).
- 3 (Deposition).
- B 1 Growing plants that don't require watering.
  - 2 Not polluting water

# Model Exam 8

### Question 1

- 2 fuel
- 3 Force
- 4 thermal
- Because chemical weathering causes a completely new different matter while mechanical weathering causes the matter to break into small pieces without changing it

### Question 🙆

- (A) (1) X
- 2 x
- **B** x
- $\mathbf{A} \times$
- (Weathering)
- 2 (Valleys)
- Question (6)
- **(1)** b
- **2** d
- **3** c

- 2 Sea

### **Ouestion** 1

- 🔼 🚹 longer than
- 2 wood
- 3 canyons
- 4 wires
- The gully may get deeper.

### Ouestion (2)

- $\mathbf{A} \mathbf{O} \checkmark$
- **6**
- 📵 📵 Turn off the lights we don't need.
  - 2 Unplug electrical appliances after using them

#### Question 63

- (Sound energy)
  - 2 (Non-renewable source)
  - **3** (Generator)
- 4 (Lichens)
- 1 The root of plants slow down the water movement, which increases the deposition process.

# Model Exam 10

#### Question 1

- M kinetic
- 2 wind
- 3 Concave mirrors 4 delta
- Because geologists found in this lauer many skeletons of whale ancestor, sea Cow, Shark teeth, turtle and crocodilians.

### Question 🕙

- A 1 1
- **Ø** √
- **4**

!andslide

#### Question

- $\mathbf{A} \mathbf{0} \mathbf{c}$
- **2** a

2 x

- **3** b
- 📵 🕕 Weathering
- 2 Erosion
- 3 Deposition

# Model Exam

### Question 1

- (A) (1) Chemical
- 2 Small
- 3 Fast
- 4 Renewable
- R valleys

### Question @

- - 2/
- 6 X
- B 1 Figure (2)
- **2** Figure (1)

#### Question (6)

- 🔼 🛈 b 🛂 a 🔞 c 4 e 😘 d

- Because sound energy does not help the hair druer do its main Job.

# Model Exam 12

#### **Ouestion**

- **(A) (1)** a
- **3** b
- **4** d
- Because it happens over a long period of time.

### Question @

- (Renewable resource)
  - 2 (Oxugen gas) 3 (Generator)
- 📵 🚹 Nile River Delta
  - 2 Grand canyon

#### Ouestion 63

- $\mathbf{A} \mathbf{1} \mathbf{c}$
- **3** b
- Oil or natural gas will be formed.

### Model Answers

# Model Exam 13

### Question 1

- A 0 / 2 x
- 3 x
- **A** /

- **B** 1 Figure (1)
- **2** Figure (2)
- 3 deposition

#### Question 2

- 🔼 1 Acid rain
- 2 fossil fuel
- 3 silts
- 4 formation
- B photosynthesis

### Question (6)

- (A) 1 Kinetic sound
  - 2 Valleys narrow (steep)
  - 3 Electrical
- 4 Coal wood
- (a) solar panels
  - (b) solar electrical

# Model Exam 14

#### Question 1

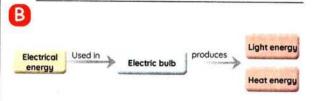
- (A) (1) wind
- 2 Mars planet
- 3 Chemical
- 4 operating TV
- B b-a-c

#### Question (2)

- A 0 /
- 2 x
- . 3 x
- B 1 Walking or biking instead of driving a car.
  - 2 Turning of the lights when you aren't in a room.

### Question (6)

- 🛕 🚺 replace
  - 2 chemical mechanical
  - 3 kinetic electrical



# Model Exam 15

#### Question 1

- (A) (1) x
- 2 x
- **3** ×

B

Renewable	Nonrenewable	
Wind - Solar	Coal - natural	
energy - Wood	gas - oil	

#### Question @

- (A) (1) Kinetic energy
  - 2 Fuel
  - 3 hydroelectric energy
  - 4 Plant roots

#### Question (6)

- 🛕 1 human's eyes lungs
  - 2 Delta
  - 3 mudslide canuon
- **B 1** Figure (2)
  - 2 Kinetic energy